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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/631,907	07/31/2003	Edward Litwinski	38190/267786	9632
826	7590 01/12/2005		EXAMINER	
ALSTON & BIRD LLP			SAETHER, FLEMMING	
	MERICA PLAZA TRYON STREET, SUITE	4000	ART UNIT	PAPER NUMBER
	, NC 28280-4000		3677	
			DATE MAIL ED. 01/12/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

				1			
-	-	Application No.	Applicant(s)	7.			
Office Action Summary		10/631,907	LITWINSKI ET AL.	V			
		Examiner	Art Unit				
		Flemming Saether	3677				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with the o	correspondence address				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPLICATION MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply will, so the mailing department adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirply within the statutory minimum of thirty (30) day is will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed  rs will be considered timely. I the mailing date of this communication (D) (35 U.S.C. § 133).	ì.			
Status							
1)⊠	Responsive to communication(s) filed on 26 (	October 2004.					
2a)⊠	This action is <b>FINAL</b> . 2b) Thi	is action is non-final.					
3)□	•						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 19-21 and 30-34 is/are pending in the 4a) Of the above claim(s) is/are withdrawith Claim(s) is/are allowed.  Claim(s) 19-21 and 30-34 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/	awn from consideration.					
Applicat	ion Papers						
9)	The specification is objected to by the Examin	ner.					
10)	The drawing(s) filed on is/are: a) ac	cepted or b) objected to by the	Examiner.				
	Applicant may not request that any objection to the						
11)	Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the E			1).			
Priority :	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreig  All b) Some * c) None of:  1. Certified copies of the priority documer  2. Certified copies of the priority documer  3. Copies of the certified copies of the pri application from the International Bures  See the attached detailed Office action for a lis	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachmer		_					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (P10-946) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date		Patent Application (PTO-152)				

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 19-21 and 30-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Keener (US 6,638,381). Keener discloses a titanium rivet (78) formed to have a grain structure between 5 to10 microns (column 3, line 42). Since the claimed range and the disclosed range each include 5 microns and that the ranges are characterized by "about" and "approximately" the disclosure in Keener of "approximately 5-10" [italic added] reads on the claimed range.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19-21 and 30-34 (some alternatively) are rejected under 35 U.S.C. 103(a) as being unpatentable over Forrest (EP 1 162 283) in view of Keener (US 6,638,381). Forrest teaches the formation of a preferred grain of a size between 3 to 5 microns

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(column 7, lines 39) in both aluminum and titanium (column 2, lines 24-29) stock materials by a friction stir process but, is not specific as to a rivet. Keener teaches the use of a friction stir process in the formation of a rivet. At the time the invention was made it would have been obvious for one of ordinary skill in the art to use the process of Forrest to form a rivet in view of the teaching of Keener. The superior properties of the structural members as disclosed in Forrest would have been recognized as also applicable to rivets because rivets, particularly in the aircraft industry, would also benefit from increased operational life and weight reduction. The specific aluminum alloy as claimed is well known and would have been recognized depending upon the particular application of the rivet.

## Response to Remarks

Applicant's remarks have been considered but are moot in view of the new grounds of rejection.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on 10 December 2004 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION** 

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**IS MADE FINAL**. See MPEP § 609(B)(2)(i). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Flemming Saether whose telephone number is 703-308-0182. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Swann can be reached on 703-306-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Flemming Saether
Primary Examiner
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